

## EAST Search History

| Ref # | Hits | Search Query  | DBs  | Default Operator | Plurals | Time Stamp          |
|-------|------|---|--|------------------|---------|---------------------|
| S61   | 24   | ("5304179"  <br>"5591166"  <br>"5891145"  <br>"5984924"  <br>"6022350"  <br>"6123706").PN. OR<br>("6267765").URPN.  | US-PGPUB;<br>USPAT;<br>USOCR                       | OR               | ON      | 2009/05/26<br>11:09 |
| S62   | 34   | ("4269178"  <br>"5084048"  <br>"5096327"  <br>"5112332"  <br>"5246458"  <br>"5413576"  <br>"5480442"  <br>"5498262"  <br>"5591166"  <br>"5628740"  <br>"5649926"  <br>"5672175"  <br>"5704936"  <br>"5776135"  <br>"5810817"  <br>"5910142"  <br>"6267765"  <br>"6283967"  <br>"6306137").PN. OR<br>("6554831").URPN. | US-PGPUB;<br>USPAT;<br>USOCR                       | OR               | ON      | 2009/05/26<br>11:17 |
| S63   | 89   | (606/256).CCLS.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; EPO;<br>JPO | OR               | OFF     | 2009/05/26<br>13:16 |
| S64   | 142  | (606/257).CCLS.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; EPO;<br>JPO | OR               | OFF     | 2009/05/26<br>14:40 |
| S65   | 129  | S64 not S63   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; EPO;<br>JPO | OR               | ON      | 2009/05/26<br>14:44 |

|     |     |   |  |    |     |                     |
|-----|-----|---|--|----|-----|---------------------|
| S66 | 58  | (606/267).CCLS.                                   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; EPO;<br>JPO | OR | OFF | 2009/05/26<br>14:58 |
| S67 | 54  | S66 not S64 not S63                               | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; EPO;<br>JPO | OR | ON  | 2009/05/26<br>14:59 |
| S68 | 14  | (606/268).CCLS.                                   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; EPO;<br>JPO | OR | OFF | 2009/05/26<br>15:05 |
| S69 | 11  | S68 not S66 not S64<br>not S63                    | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; EPO;<br>JPO | OR | ON  | 2009/05/26<br>15:05 |
| S70 | 10  | (606/271).CCLS.                                   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; EPO;<br>JPO | OR | OFF | 2009/05/26<br>15:08 |
| S71 | 10  | S70 not S68 not S66<br>not S64 not S63            | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; EPO;<br>JPO | OR | ON  | 2009/05/26<br>15:08 |
| S72 | 47  | (606/253).CCLS.                                   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; EPO;<br>JPO | OR | OFF | 2009/05/26<br>15:11 |
| S73 | 46  | S72 not S70 not S68<br>not S66 not S64 not<br>S63 | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; EPO;<br>JPO | OR | ON  | 2009/05/26<br>15:11 |
| S74 | 489 | (606/278).CCLS.                                   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; EPO;<br>JPO | OR | OFF | 2009/05/26<br>15:15 |

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|-----|-----|---|------------------------------|----|----|---------------------|
| S76 | 55  | ("0312580"  <br>"4110951"  <br>"5005562"  <br>"5222954"  <br>"5300073").FN. OR<br>("5380325").URPN.   | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2009/05/26<br>15:19 |
| S77 | 235 | ("2696817"  <br>"3997138"  <br>"4599086"  <br>"4648388"  <br>"4653481"  <br>"4719905"  <br>"4743256"  <br>"4771767"  <br>"4805602"  <br>"4815453"  <br>"4820305"  <br>"4827918"  <br>"4836193"  <br>"4854304"  <br>"4854311"  <br>"4863476"  <br>"4887596"  <br>"4892545"  <br>"4931055"  <br>"4932975"  <br>"4944743"  <br>"4946458"  <br>"4950270"  <br>"4963144"  <br>"4987892"  <br>"4998936"  <br>"5000165"  <br>"5000166"  <br>"5002542"  <br>"5005562"  <br>"5007909"  <br>"5010879"  <br>"5011484"  <br>"5015247"  <br>"5030220"  <br>"5034011"  <br>"5041113"  <br>"5042982"  <br>"5047029"  <br>"5053034"  <br>"5057109"  <br>"5062850"  <br>"5067955"  <br>"5067956"  <br>"5084048"  <br>"5084049" | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2009/05/26<br>15:24 |

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|     |     | "5910142"<br>"5928232"<br>"5954725"<br>"5964760"<br>"5980523"<br>"5997539"<br>"6010504"<br>"6015409"<br>"6019759"<br>"6063089"<br>"6083226"<br>"6113601"<br>"6117136"<br>"6132434"<br>"6261287"<br>"6280442"<br>"6287311"<br>"6309391"<br>"6379354"<br>"6451021"<br>"6454773"<br>"6471705"<br>"6478798"<br>"6537276"<br>"6562040"<br>"6565567"<br>"6595992"<br>"RE34985"<br>"RE37665").PN. OR<br>("7314467").URPN. |  |    |    |                     |
| S78 | 203 | S77 not S76 not S72<br>not S70 not S68 not<br>S66 not S64 not S63  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; EPO;<br>JPO | OR | ON | 2009/05/26<br>15:26 |
| S80 | 401 | S74 not S77 not S76<br>not S72 not S70 not<br>S68 not S66 not S64<br>not S63   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; EPO;<br>JPO | OR | ON | 2009/05/26<br>15:41 |

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|-----|-------|--|--|----|-----|---------------------|
| S81 | 16    | (US-20030073996-\$ or US-20030028191-\$ or US-20050165396-\$ or US-20060052786-\$). did. or (US-5735851-\$ or US-6267765-\$ or US-5800435-\$ or US-5613968-\$ or US-6050997-\$ or US-4946458-\$ or US-5380325-\$ or US-6123706-\$ or US-5938663-\$ or US-5672175-\$ or US-6554831-\$ or US-5254118-\$). did. | US-PGPUB;<br>USPAT                                 | OR | ON  | 2009/05/28<br>15:42 |
| S82 | 1     | S81 and ceramic  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; EPO;<br>JPO | OR | ON  | 2009/05/28<br>15:42 |
| S84 | 89    | (606/256).OCLS.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; EPO;<br>JPO | OR | OFF | 2009/05/28<br>15:46 |
| S85 | 14    | S84 and ceramic  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; EPO;<br>JPO | OR | ON  | 2009/05/28<br>15:47 |
| S87 | 48961 | "titanium nitride"   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; EPO;<br>JPO | OR | ON  | 2009/05/28<br>15:52 |
| S88 | 23    | "titanium nitride coating" and (ball with socket)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; EPO;<br>JPO | OR | ON  | 2009/05/28<br>15:52 |
| S89 | 8     | "titanium nitride coating" and (ball with socket) and ceramic  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; EPO;<br>JPO | OR | ON  | 2009/05/28<br>15:53 |



|     |     |                                   |  |    |     |                     |
|-----|-----|-----------------------------------|--|----|-----|---------------------|
| S90 | 319 | (damp\$4) with (ball with socket) | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; EPO;<br>JPO | OR | ON  | 2009/05/28<br>16:24 |
| S91 | 292 | (403/134).CCLS.                   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; EPO;<br>JPO | OR | OFF | 2009/05/28<br>16:28 |
| S92 | 318 | (403/138).CCLS.                   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; EPO;<br>JPO | OR | OFF | 2009/05/28<br>16:54 |
| S93 | 0   | ("2868572").URPN.                 | USPAT  | OR | ON  | 2009/05/28<br>17:04 |
| S94 | 192 | (403/149).CCLS.                   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; EPO;<br>JPO | OR | OFF | 2009/05/28<br>17:13 |
| S95 | 251 | (403/132).CCLS.                   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; EPO;<br>JPO | OR | OFF | 2009/05/28<br>17:13 |
| S96 | 217 | S95 not S91 not S92               | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; EPO;<br>JPO | OR | ON  | 2009/05/28<br>17:15 |
| S97 | 12  | ("2453742").URPN.                 | USPAT  | OR | ON  | 2009/05/28<br>17:17 |
| S98 | 432 | (403/166).CCLS.                   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; EPO;<br>JPO | OR | OFF | 2009/05/28<br>17:23 |
| S99 | 2   | S98 and S95                       | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; EPO;<br>JPO | OR | ON  | 2009/05/28<br>17:24 |

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|------|------|---------------------|--|----|-----|---------------------|
| S100 | 5083 | (403/122-144).OCLS. | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; EPO;<br>JPO | OR | OFF | 2009/05/28<br>17:26 |
| S101 | 10   | S98 and S100        | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; EPO;<br>JPO | OR | ON  | 2009/05/28<br>17:26 |

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